

Mike John Page

Data Scientist & R Specialist

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Personal Statement

A published data and sport scientist that is highly motivated, analytical, and revels on intellectual challenges. Has experience working with elite and Commonwealth athletes in the collection and analysis of a broad range of psychological, physiological, and biomechanical markers. Recently completed an internship at DataKolektiv implementing full-stack data solutions using RDBS and Shiny and Plotly apps. Has a proven track-record working as a freelancer, recently helping a start-up receive funding for their project. Excellent communicator who thrives in creating a story from data and works diligently in interdisciplinary teams to deliver timely results.

Relevant Data Skills

- *Technologies:* R, Python, MySQL, PostgreSQL, Bash, Git, Markdown, SPSS Statistics, Excel, G-Power, Linux
- *Skills:* remote servers, headless browsers, data mining, web scraping, API clients, data wrangling, exploratory analysis, machine learning and statistics, data visualisation
- *Data libraries:* tidyverse, NumPy, pandas, httr, jsonlite, xml2, widyr, blogdown, topic-models

Completed Projects

Perfectionism in the Public Domain: A Natural Language Processing Approach: built an API client in R using the *httr* package that gathered news articles from newsriver.io. Using a tidy data approach, I then performed sentiment analysis and topic models using latent Dirichlet allocation.

Web Scraping the Weather: used Python to build a web scraper that collects the current weather forecast for a given location from Wunderground. As the weather information was rendered in JavaScript, Selenium was used in combination with Morzilla's gecko-driver. The retrieved content was then parsed using BeautifulSoup. The script was then set up as a bash alias to be executed daily, as described in my blog post [here](#).

Multilevel Modelling in SPSS: wrote a script in SPSS syntax that executed multilevel (hierarchical linear) models on nested physiological and psychological data.

GGDOT Hacknight: I ran Box-Cox transformations and regression in R to analyse the CO₂ emissions of food. I created new features in the data set and found a novel and unexpected relationship in the data. The finding is now being further validated by the GGDOT group before being shared with the Public health community.

Freelance Project: Drawing Insight from Simple Data Exploration and Visualisation: used choropleth maps, dodged bar charts and other simple visualisation techniques (along-

side data exploration) to inform a new start-up of competitors, industry trends, and recommended areas for investment. The data and figures were used successfully by the company to secure independent funding.

Current Projects

Megatron: an R package that iterates through a list of data transformations, measuring distribution fit at each stage using Kolmogorov-Smirnov and Shapiro-Wilk tests and returns a normal data set with transformation summaries.

Selectr: an R package engineered to automate the statistical test selection process. Scans data frame objects for scales of measurement and takes user parameters to return a recommended statistical test and associated R package.

Education

Springboard: *Introduction to Data Science* 2018

- A 100-hour online data science workshop
- R, Data Wrangling, Analytics, and Data Storytelling
- Capstone project reviewed by an independent industry expert

DataCamp 2018

- Completed thirteen courses
- Python, R, Programming, Importing and Cleaning Data, Probability and Statistics

York St John University: *MSc by Research in Psychoendocrinology* 2016-2017

- Awarded £2500 Nestlé research grant
- Won poster presentation prize in recognition of excellence in the presentation of doctoral research at the 2016 BSPID conference
- Mastered SPSS, Excel, G-Power and complex hierarchical linear models

York St John University: *Sport Science Performance Conditioning BSc* 2010-2014

- 1st Class Honours
- Dissertation prize, highest course grade prize

Employment

Freelance Data Scientist current

- deliver a range of work from web scraping to machine learning applications

DataKolektiv Intern 2018-2019

- analysed semantic ontology networks using topic models
- built automated data systems using an RDBS back-end and Shiny front-end
- completed tasks that improved skills in data scraping and headless Linux environments

York St John University

Lecturer and Module Director: Sport and Exercise Biomechanics 2017-2018

- Curated and delivered module including lectures, labs, and assessments
- Increased mean student grade from previous years
- Collaborated with laboratory technician to organise materials for labs

Laboratory Technician: Biomechanics laboratory 2016

- Prepared equipment for teaching and research activities
- Liaised with industry partners to resolve technical issues
- Contributed to teaching and research environment

Research Assistant: Biomechanics 2014

- Analysed 3D modelling data using a Qualisys motion capture system and Visual3D
- Performed in depth literature reviews
- Managed and analysed large, complex data sets

Publications

Page, M.J., Hill, A.P., Kavanagh, O., & Jones, S. (2018). [Multidimensional perfectionism and cortisol response in non-clinical populations: A systematic review and evaluation.](#) *Journal of Personality and Individual Differences*, 124, 16-24.

Page, M.J., Hill, A.P., Kavanagh, O., & Jones, S. (2018). Cortisol Awakening Response as an Indicator of Pre-Competition Stress in Elite and Non-Elite Athletes. *Publication date TBC.*

Additional Languages

Italian: *conversational* | Spanish: *A1*

Other

Charity: cycled over 6800 Km unsupported across Europe to raise over £7000 for various charities.

Interests: Mountain biking, rock climbing, travelling, playing guitar.

References available upon request.